TRANSLATION PATENT COOPERATION TREATY POT INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	TOD SVIDSVISS	Con Reserve DOT/IDE A //1/6
MR4 04070PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No.	International filing date (day/month/year	
PCT/FR2004/050479	01.10.2004	03.10.2003
International Patent Classification (IPC) or r	national classification and IPC	
B28B1/26, C04B28/02		
Applicant		
SAINT-GOBAIN VETROT	EX FRANCE SA	
	eliminary examination report, established both applicant according to Article 36.	y this International Preliminary Examining Authority
2. This REPORT consists of a total of	•	ncluding this cover sheet.
3. This report is also accompanied by	y ANNEXES, comprising:	
a. (sent to the applicant of	and to the International Bureau) a total of	sheets, as follows:
sheets of the des	cription, claims and/or drawings which have	been amended and are the basis for this report and/or
sheets containing Instructions).	g rectifications authorized by this Authority	(see Rule 70.16 and Section 607 of the Administrative
the disclosure in	persede earlier sheets, but which this Author the international application as filed, as in	rity considers contain an amendment that goes beyond dicated in item 4 of Box No. I and the Supplemental
Box.		
b (sent to the Internation	nal Bureau only) a total of (indicate type and	number of electronic carrier(s))
	111 6	, containing a sequence listing and/or tables
related thereto, in comp Section 802 of the Admi		Supplemental Box Relating to Sequence Listing (see
This report contains indications re	lating to the following items:	
Box No. I Basis of	the report	
Box No. II Priority		
	ablishment of opinion with regard to novelty	, inventive step and industrial applicability
	unity of invention	
l Renorm	-	to ಕರಾಲೆಗ್ರಿ, i ಹಾಲಹ ಗೇ ವಕ್ಕಾ ನಾ industrial applicability;
	s and explanations supporting such statement	
Box No. VI Certain	documents cited	
Box No. VII Certain	defects in the international application	
Box No. VIII Certain	observations on the international application	
Date of submission of the demand	Date of completi	on of this report
Name and mailing address of the IPEA/EP	Authorized offic	ст
Facsimile No.	Telephone No.	

Box	No. I	Basis of the report		
1.		n regard to the language, this report is based on the internation cated under this item.	al application in the language in which it	was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purports.		,
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.4)		
		international preliminary examination (Rule 55.2 and/o		
2.	recei	n regard to the elements of the international application, this i iving Office in response to an invitation under Article 14 are report):	report is based on (replacement sheets when referred to in this report as "originally	ich have been furnished to the filed" and are not annexed to
		the international application as originally filed/furnished		
	\bowtie	the description:		
		pages 1-9		as originally filed/furnished
		pages*		
	_	pages*	received by this Authority on	
	\boxtimes	the claims:		
		nos. <u>1–19</u>	N a .	as originally filed/furnished
		nos.*	as amended (together with an	y statement) under Article 19
		nos.*	received by this Authority on	
	_	nos.*	received by this Authority on	
	Ш	the drawings:		
		sheets		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	1
		a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as file.		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "supe	erseded."	

International application No.

	in i e k	MATIONAL PRELIN	WILINAKY KI	EPORT ON PATENTABILITY		PCT/FR2004/0504	479
Box	No. V			cle 35(2) with regard to novelty, in- orting such statement	ventive ste	ep or industrial applicability;	
1.	Statement						
	Novelty (N)		Claims _	2-19			_ YES
			Claims _	1			_ NO
	Inventive	e step (IS)	Claims	2-13, 17-19			YES
			Claims _	1 14-16			
	Industria	l applicability (IA)	Claims	1-19			YES
			Claims 1-19 Claims				
2.	Citations an	d explanations (Rule 7	70.7)		-		
2.	1.	-		report, reference	o is	made to the	
	Τ•	following		_	C 12	made to the	
		TOTIOWING	aocun	lencs:			
		D1: WO-A-0	01/124	04:			
		D2: EP-A-		·			
		D3: US-A-		,			
		20. 00 11 .	2000,0	100001.			
	2.	The follow	wing s	tatements are ma	de wh	ile taking	
		into cons	iderat	ion the observat	ions	in Box VIII.	
	2.1	Independe	nt cla	im 1:			
		Document I	D1, wh	ich is considere	d to	be the most	
		relevant]	prior	art, describes (the r	eferences	
		between pa	arenth	eses apply to sa	id do	cument):	
		- a meth	hod fo	r moulding a hyd:	rauli	c setting	
		matrix	x part	, including the	follo	wing steps of:	
		(a)	inject	ting a slurry con	ntain	ing a hydraulic	
			binde	r and so-called m	nixin	g water into a	
			mould	;			
		(b)	extra	cting said mixing	y wate	er by means of	
			a vacı	uum; and			
		(c)	remov	ing the fresh par	t fro	om said mould.	

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

It follows that the subject matter of **claim 1** is not novel (PCT Article 33(2)) (see D1 and, in particular, the passages cited in the search report).

2.2 Independent claim 14:

Document D2, which is considered to be the most relevant prior art, describes (the references between parentheses apply to said document):

- a hydraulic setting matrix part produced in accordance with the method as per any one of claims 1 to 13, which part has a composition containing a weight percentage of hydraulic binder that is between 2% and 98% of the total weight, a weight percentage of reinforcing fibres that is between 0% and 50% of the total weight, a weight percentage of other fibres that is between 0% and 50% of the total weight, and a weight percentage of water that is between 5% and 75% of the total weight.

The subject matter of independent claim 14 differs from the above in that it also contains:

- a weight percentage of sand that is between 0.1% and 95% of the total weight,
- a weight percentage of polymers that is between 0% and 75% of the total weight,
- a weight percentage of superplasticiser that is between 0% and 20% of the total weight, and

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

 a weight percentage of metakaolin that is between 0% and 50% of the total weight.

As a result, the subject matter of independent claim 14 is novel (PCT Article 33(2)).

The problem that claim 14 is intended to solve can be considered to be that of:

- limiting the drying time before the part is removed from the mould to less than 24 hours (see page 1, lines 21-24).

The solution proposed in claim 14 of the present application is not considered to be inventive (PCT Article 33(3)) because it would be standard practice for a person skilled in the art seeking to solve the stated problem to use information already available in the field, for example, the teaching in document D2 and, in particular, the passages cited in the search report.

3. Dependent claims:

The features in **dependent claims 15 and 16** are also known to a person skilled in the art (see D3 and the passages cited in the search report). As a result, said claims do not fulfil the PCT requirement of inventive step.

Dependent claims 2-13 and 17-19 fulfil the PCT requirements of novelty and inventive step.

Box No. V	No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				ıl applicability;			
4.	Claims	1-19	fulfil	the	requirements	of	PCT	Article
	33(4).							

Box No. VII	Certain def	ects in the inte	rnational appli	cation				
The following de	fects in the for	m or contents o	f the internation	al application ha	ve been noted	i:		
Contr	ary to	the red	quiremen	nts of P	CT Rul	e 5.1(a)	(ii), the	
descr	iption	does no	ot indic	cate the	relev	ant pric	or art	
discl	osed ir	n docume	ents D1,	. D2 and	D3, n	or does	it cite	
said	documer	nt.						
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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The application does not fulfil the requirements set forth in PCT Article 6 because claims 1, 14 and 15 are not clear.

The expression "for moulding a hydraulic setting matrix part" in **claim 1** is ambiguous. In particular, it is not clear to the present Examining Authority whether "hydraulic setting" refers to "a part" or to "a matrix".

- 2. In claim 14, the expression "between 0% and x%" renders the features that follow it entirely optional. Such features cannot be used to differentiate the claimed subject matter from the prior art (see the PCT Guidelines 5.40). This observation also applies to the expressions "can be ..." and "the selection of which must be taken into consideration when designing the part" in claim 15 and "can be ..." in claim 16.
- 3. The relative terms "quick" and "high" in **claim 15** do not have a well-established, recognised meaning and cast doubt on the meaning of the technical features to which they refer. It follows that the subject matter of said claim has not been defined clearly (see the PCT Guidelines 5.34).
- 4. The term "Cem-FIL" in **claim 16** is a registered trademark and has no precise meaning because it is not accepted as a standard descriptive term at an

	101/11/2001/0301/3					
Box No. VIII	Certain observations on the international application					
	international level.					
5.	Independent claims 1 and 14 contain technical					
	features that do not mutually correspond. As a					
	result, it is not clear to the present Examining					
	Authority which features are essential for the					
	invention (see the PCT Guidelines 5.15).					
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